



School of Pharmacy PhD Projects 2015/16

Project Title Formulation and characterisation of novel injectable stimulus sensitive gels designed for the treatment of astrocytomas

Supervisors Prof. David Jones, Prof. Chris Scott & Dr. Gavin P. Andrews

Description This interdisciplinary translational project aims to develop and evaluate novel drug depot formulations for treatment of brain cancers - injectable drug-loaded formulations that can be positioned specifically in tumours. These formulations will be designed to be low viscosity and hence readily injectable. Following injection these platforms will undergo rheological structuring and offer controlled, targeted release of anti-cancer drugs directly to the tumour. Following optimisation the efficacy of these platforms will be assessed through peritumoural application and evaluation in a (ectopic) subcutaneous xenograft model and finally in an orthotopic model of glioblastoma

This 3-year project will give extensive experience in pharmaceutical formulation, drug delivery and experimental therapeutics as part of an internationally-funded research team.

Start Date September 2015

Keywords Stimulus sensitive gels, astrocytoma, controlled release

Contact Details

pharmacypostgrad@qub.ac.uk

How to Apply

Postgraduate applications should be made using Queen's Online:

<http://go.qub.ac.uk/pgapply>

Please note that there are two application processes: one for admission to the university and another for postgraduate awards.

Further Information

Additional information for prospective postgraduate students can be found on the School of Pharmacy website:

<http://www.qub.ac.uk/pha>

and the Queen's Postgraduate website:

<http://www.qub.ac.uk/home/ProspectiveStudents/PostgraduateStudents/>

